

TOSHIBA

Leading Innovation >>>

Satellite® L300 Series Resource Guide

NOTE

Keep this guide in a convenient place to access important information about your computer.

If you need assistance:

- ❖ Toshiba's Support Web site
pcsupport.toshiba.com
- ❖ Toshiba Customer Support Center
Calling within the United States (800) 457-7777
Calling from outside the United States (949) 859-4273

Please fill in for your reference and future use:

Model name _____

Part number _____

Serial number _____

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▲ WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

Wash hands after handling.

Model: Satellite® L300 Series

Recordable and/or ReWritable Drive(s) and Associated Software Warranty

The computer system you purchased may include Recordable and/or ReWritable optical media drive(s) and associated software, among the most advanced data storage technologies available. As with any new technology, you must read and follow all set-up and usage instructions in the applicable user guides and/or manuals enclosed or provided electronically. If you fail to do so, this product may not function properly and you may lose data or suffer other damage. TOSHIBA AMERICA INFORMATION SYSTEMS, INC. ("TOSHIBA"), ITS AFFILIATES AND SUPPLIERS DO NOT WARRANT THAT OPERATION OF THE PRODUCT WILL BE UNINTERRUPTED OR ERROR FREE. YOU AGREE THAT TOSHIBA, ITS AFFILIATES AND SUPPLIERS SHALL HAVE NO RESPONSIBILITY FOR DAMAGE TO OR LOSS OF ANY BUSINESS, PROFITS, PROGRAMS, DATA, NETWORK SYSTEMS OR REMOVABLE STORAGE MEDIA ARISING OUT OF OR RESULTING FROM THE USE OF THE PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

Protection of Stored Data

For your important data, please make periodic back-up copies of all the data stored on the hard disk or other storage devices as a precaution against possible failures, alteration, or loss of the data. **IF YOUR DATA IS ALTERED OR LOST DUE TO ANY TROUBLE, FAILURE OR MALFUNCTION OF THE HARD DISK DRIVE OR OTHER STORAGE DEVICES AND THE DATA CANNOT BE RECOVERED, TOSHIBA SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS OF DATA, OR ANY OTHER DAMAGE RESULTING THEREFROM. WHEN COPYING OR TRANSFERRING YOUR DATA, PLEASE BE SURE TO CONFIRM WHETHER THE DATA HAS BEEN SUCCESSFULLY COPIED OR TRANSFERRED. TOSHIBA DISCLAIMS ANY LIABILITY FOR THE FAILURE TO COPY OR TRANSFER THE DATA CORRECTLY.**

Critical Applications

The computer you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage. **ACCORDINGLY, TOSHIBA, ITS AFFILIATES AND SUPPLIERS DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE USE OF THE COMPUTER PRODUCTS IN ANY CRITICAL APPLICATIONS. IF YOU USE THE COMPUTER PRODUCTS IN A CRITICAL APPLICATION, YOU, AND NOT TOSHIBA, ASSUME FULL RESPONSIBILITY FOR SUCH USE.**

EU Declaration of Conformity

TOSHIBA declares that this product conforms to the following Standards:



Supplementary
Information:

*The product complies with the requirements of the Low Voltage Directive 73/23/EEC, the EMC Directive 89/336/EEC and/or the R&TTE Directive 1999/5/EC.

This product is carrying the CE-Mark in accordance with the related European Directives. The party responsible for CE-Marking is TOSHIBA Europe GmbH, Hammfelddamm 8, 41460 Neuss, Germany.

The European Union WEEE (Waste from Electrical and Electronic Equipment) Directive Information

The European Union WEEE (Waste from Electrical and Electronic Equipment) Directive is intended to protect the quality of the environment and human health through the responsible use of natural resources and the adoption of waste management strategies that focus on recycling and reuse. This Directive requires producers of electrical and electronic products put on the market in European Union (EU) member countries after August 2005 to mark such products with a crossed-out wheeled bin symbol.



In the European Union, this symbol indicates that when the last end user wishes to discard this product, it must be sent to appropriate facilities for recovery and recycling. This Directive applies to EU member countries only and does not apply to end users in other countries such as the United States.

Although the initial emphasis is in Europe, Toshiba is already working with design engineers, suppliers, and other partners to determine appropriate worldwide product life cycle planning and end-of-life strategies for our products. Please contact your local government for applicable laws and regulations governing the disposal of this product. For information on how to trade-in or recycle your product, visit www.reuse.toshiba.com.

VCCI Class B Information

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としています。この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

Modem Warning Notice

Conformity Statement

The equipment has been approved to [Commission Decision "CTR21"] for pan-European single terminal connection to the Public Switched Telephone Network (PSTN).

However, due to differences between the individual PSTNs provided in different countries/regions the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems, you should contact your equipment supplier in the first instance.

Taiwan

Article 14	Unless approved, for any model accredited low power radio frequency electric machinery, any company, trader or user shall not change the frequency, increase the power or change the features and functions of the original design.
Article 17	Any use of low power radio frequency electric machinery shall not affect aviation safety and interfere with legal communications. In the event interference is caused, the use of such electric machinery shall be immediately discontinued. Operation of such products can be resumed only when they are modified and can no longer cause interference.

The legal communications mentioned in the above item refer to radio communications operated in accordance with telecommunication laws and regulations.

Low power radio frequency electric machinery shall resist against interference from legal communications or from industrial, scientific and medical radio emission electric machinery.

Using this Equipment in Japan

In Japan, the frequency bandwidth of 2,400 MHz to 2,483.5 MHz for second generation low-power data communication systems such as this equipment overlaps that of mobile object identification systems (premises radio station and specified low-power radio station).

1. Sticker

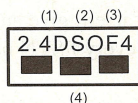
Please put the following sticker on devices incorporating this product.

The frequency bandwidth of this equipment may operate within the same range as industrial devices, scientific devices, medical devices, microwave ovens, licensed radio stations and non-licensed specified low-power radio stations for mobile object identification systems (RFID) used in factory product lines (Other Radio Stations).

1. Before using this equipment, ensure that it does not interfere with any of the equipment listed above.
2. If this equipment causes RF interference to other radio stations, promptly change the frequency being used, change the location of use, or turn off the source of emissions.
3. Contact TOSHIBA Direct PC if you have problems with interference caused by this product to Other Radio Stations.

2. Indication

The indication shown below appears on this equipment.



- 1 2.4: This equipment uses a frequency of 2.4 GHz.
- 2 DS: This equipment uses DS-SS modulation.
OF: This equipment uses OFDM modulation.
- 3 The interference range of this equipment is less than 40m.
- 4 ■ ■ ■ This equipment uses a frequency bandwidth from 2,400 MHz to 2,483.5 MHz.

It is possible to avoid the band of mobile object identification systems.

3. TOSHIBA Direct PC

Monday – Friday: 10:00 – 17:00

Toll Free Tel: 0120-15-1048

Direct Dial: 03-3457-4850

Fax: 03-3457-4868

Device Authorization

This device obtains the Technical Regulation Conformity Certification and the Technical Conditions Compliance Approval, and it belongs to the device class of radio equipment of low-power data communication system radio station stipulated in the Radio Law and the Telecommunications Business Law of Japan.

The Name of the radio equipment: refer to the equipment label provided on the computer

JAPAN APPROVALS INSTITUTE FOR TELECOMMUNICATIONS EQUIPMENT

Approval Number: D01-1128JP

TELECOM ENGINEERING CENTER Approval Number: 03NY.A0018, 03GZDA0017

The following restrictions apply:

- ❖ Do not disassemble or modify the device.
- ❖ Do not install the embedded wireless module into other device.
- ❖ 5.17 GHz to 5.23 GHz for indoor use only.

Radio Approvals for Wireless Devices

NOTE

The following information is dependent on what type of wireless device is in your computer. Not all devices are available on all models.

Approved Countries/Regions for use for the Atheros AR5BXB72 2.4 + 5GHz 11n minicard

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

NOTE

This device works on passive scan only.

A peer-to-peer mode is not available in 802.11a and Turbo Mode.

Argentina	Australia	Austria
Azerbaijan	Bahrain	Belgium
Brazil	Bulgaria	Canada
Chile	China (PRC)	Cyprus
Czech Republic	Denmark	Ecuador
Egypt	Finland	France
Germany	Greece	Hong Kong
Hungary	Iceland	India

Indonesia	Ireland	Italy
Japan	Latvia	Lithuania
Luxembourg	Malta	Mexico
Netherlands	New Zealand	Norway
Pakistan	Peru	Philippines
Poland	Portugal	Romania
Russia	Saudi Arabia	Slovakia
Slovenia	South Korea	Spain
Sweden	Switzerland/Liechtenstein	Taiwan (ROC)
UAE (United Arab Emirates)	Ukraine	United Kingdom
Uruguay	USA	Venezuela

Europe - Restrictions for use of 2.4 GHz Frequencies in European Community Countries

België/ Belgique:	For private usage outside buildings across public grounds over less than 300m no special registration with IBPT/BIPT is required. Registration to IBPT/BIPT is required for private usage outside buildings across public grounds over more than 300m. For registration and license please contact IBPT/BIPT.
	Voor privé-gebruik buiten gebouw over publieke grond over afstand kleiner dan 300m geen registratie bij BIPT/IBPT nodig; voor gebruik over afstand groter dan 300m is wel registratie bij BIPT/IBPT nodig. Voor registratie of licentie kunt u contact opnemen met BIPT.
	Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.
Deutschland:	License required for outdoor installations. Check with reseller for procedure to follow.
	Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.
France:	Restricted frequency band: only channels 1 to 7 (2400 MHz and 2454 MHz respectively) may be used outdoors in France. Please contact A.R.T. (http://www.art-telecom.fr) for applicable procedures to follow.
	Bande de fréquence restreinte: seuls les canaux 1- 7 (2400 et 2454 MHz respectivement) doivent être utilisés endroits extérieur en France. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (http://www.art-telecom.fr) pour la procédure à suivre.
Italia:	License required for indoor use. Use with outdoor installations not allowed.

	È necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire.
Nederland:	License required for outdoor installations. Check with reseller for procedure to follow.
	Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure.

Europe - Restrictions for Use of 5 GHz Frequencies in European Community Countries

European Community Countries	5150-5250 MHz Channels: 36, 40, 44, 48 Indoor Only	5250-5350 MHz Channels: 52, 56, 60, 64 Indoor Only	5470-5725 MHz Channels: 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 Indoor/Outdoor
Austria	O	x	x
Belgium, France, Switzerland/Liechtenstein	O	O	x
Denmark, Finland, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Sweden, UK	O	O	O
Iceland, Spain	O	O	O

O: allowed x: forbidden

- ❖ To remain in conformance with European spectrum usage laws for Wireless LAN operation, the above 2.4 GHz and 5 GHz channel limitations apply. The user should use the wireless LAN utility to check the current channel of operation. If operation is occurring outside of the allowable frequencies as listed above, the user must cease operating the Wireless LAN at that location and consult the local technical support staff responsible for the wireless network.
- ❖ The 5 GHz Turbo mode feature is not allowed for operation in any European Community country.
- ❖ This device must not be operated in ad-hoc mode using channels in the 5 GHz bands in the European Community. Ad-hoc mode provides a direct communication between two client devices without a Wireless LAN Access Point.
- ❖ This device must be used with Access Points that have employed and activated a radar detection feature required for European Community operation in the 5 GHz bands. This device will operate under the control of the Access Point in order to avoid operating on a channel occupied by any radar system in the area. The presence of nearby radar operation may result in temporary interruption of operation of this device. The Access Point's radar detection feature will automatically restart operation on a channel free of radar. You may consult with the local technical support staff responsible for the wireless network to ensure the Access Point device(s) are properly configured for European Community operation.

Approved Countries/Regions for use for the Atheros AR5XB63 11g minicard

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

NOTE

This device works on passive scan only.

A peer-to-peer mode is not available in 802.11a and Turbo Mode.

Argentina	Australia	Austria
Azerbaijan	Bahrain	Belgium
Brazil	Brunei	Canada
Chile	China (PRC)	Colombia
Costa Rica	Cyprus	Czech Republic
Denmark	Ecuador	Egypt
Finland	France	Germany
Greece	Honduras	Hong Kong
Hungary	Iceland	India
Indonesia	Ireland	Italy
Jamaica	Japan	Jordan
Latvia	Lithuania	Luxembourg
Malta	Mexico	Montenegro
Netherlands	New Zealand	Norway
Pakistan	Panama	Peru
Philippines	Poland	Portugal
Russia	Saudi Arabia	Serbia
Slovakia	Slovenia	South Korea
Spain	Sri Lanka	Sweden
Switzerland/Liechtenstein	Taiwan (ROC)	Thailand
UAE (United Arab Emirates)	Ukraine	United Kingdom
Uruguay	USA	Venezuela
Vietnam		

Approved Countries/Regions for the Realtek® RTL8187B

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

Albania	Argentina	Australia
Austria	Azerbaijan	Bahrain
Bangladesh	Belgium	Bolivia
Bosnia and Herzegovina	Bulgaria	Cambodia
Canada	Chile	China
Colombia	Costa Rica	Croatia
Cyprus	Czech Republic	Denmark
Ecuador	Egypt	El Salvador
Estonia	Finland	France
Germany	Ghana	Greece
Guatemala	Honduras	Hong Kong
Hungary	Iceland	India
Indonesia	Ireland	Israel
Italy	Japan - Jate	Japan - Teleco
Jordan	Kazakhstan	Kenya
Kuwait	Latvia	Lebanon
Lesotho	Liechtenstein	Lithuania
Luxembourg	Macedonia	Malaysia
Malta	Mexico	Monaco
Morocco	Netherlands	New Zealand
Nicaragua	Nigeria	Norway
Oman	Pakistan	Panama
Papua New Guinea	Paraguay	Peru
Philippines	Poland	Portugal
Puerto Rico	Qatar	Rep. Dominicana
Romania	Russia	Saudi Arabia
Senegal	Serbia and Montenegro	Singapore
Slovak Republic	Slovenia	South Africa
South Korea	Spain	Sri Lanka
Sweden	Switzerland	Taiwan
Thailand	Turkey	Ukraine
UAE (United Arab Emirates)	United Kingdom	Uruguay

USA	Venezuela	Vietnam
Yemen	Zimbabwe	

Approved Countries/Regions for use for the Intel® PRO/Wireless 3945ABG Network Connection

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

NOTE

An adhoc mode is available in Ch1-Ch11(802.11b/g), An Infrastructure mode is available in Ch1-Ch11 (802.11b/g)
Ch36,40,44,48,52,56,60,64,149,153,157,161,165 (802.11a) Wake-up on wireless lan function is not available in battery mode.

802.11b/g (2.4 GHz)

Australia	Brunei	Canada
Chile	Hong Kong	India
Indonesia	Malaysia	Mexico
New Zealand	Saudi Arabia	Taiwan
USA	Venezuela	Vietnam

802.11a (5 GHz)

Australia	Brunei	Canada
Chile	Hong Kong	India
Indonesia	Malaysia	Mexico
New Zealand	Saudi Arabia	Taiwan
USA	Venezuela	Vietnam

Approved Countries/Regions for the Intel® Wireless Wi-Fi® Link 4965AGN

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION Do not use this equipment except in the countries/regions in the following table.

NOTE An adhoc mode is available in Ch1-Ch11(802.11b/g), An Infrastructure mode is available in Ch1-Ch11 (802.11b/g)
Ch36,40,44,48,52,56,60,64,149,153,157,161,165 (802.11a).

Antigua	Argentina	Aruba
Bahamas	Barbados	Belize
Bermuda	Bolivia	Canada
Chile	Cayman Islands	Colombia
Costa Rica	Curacao	Dominican Republic
Ecuador	El Salvador	Grenada
Guadeloupe	Guyana	Haiti
Honduras	Jamaica	Martinique
Netherlands Antilles	Nicaragua	Panama
Paraguay	Peru	Puerto Rico
St. Kitts	St. Maarten	Suriname
Trinidad and Tobago	Uruguay	USA
US Virgin Islands	Venezuela	

11a, 11b, 11g and 11n wireless are based on IEEE 802.11a, 802.11b, 802.11g and 802.11n respectively. The IEEE 802.11n specification has not been finalized and is currently in draft release. The TOSHIBA 11a/b/g/n Wireless LAN Adapters are based on the Draft Release, Version 1.0, of the IEEE 802.11n specification. An adapter with 11a/b, 11a/b/g, or 11a/b/g/n can communicate on any of its supported formats; the actual connection will be based on the access point to which it connects.

Connection compatibility with the wireless equipment in Draft 11n mode is not guaranteed.

The Draft 11n function cannot be used with WEP/TKIP. Draft 11n mode can be used only with WPA-PSK(AES) mode or no security mode.

Bluetooth® Wireless Technology Interoperability

Bluetooth® Cards from TOSHIBA are designed to be interoperable with any product with *Bluetooth* wireless technology that is based on Frequency Hopping Spread Spectrum (FHSS) radio technology, and is compliant to:

- ❖ *Bluetooth* Specification as defined and approved by The *Bluetooth* Special Interest Group.
- ❖ Logo certification with *Bluetooth* wireless technology as defined by The *Bluetooth* Special Interest Group.

CAUTION

Bluetooth wireless technology is a new innovative technology, and TOSHIBA has not confirmed compatibility of its *Bluetooth* products with all computers and/or equipment using *Bluetooth* wireless technology other than TOSHIBA portable computers.

Always use *Bluetooth* cards from TOSHIBA in order to enable wireless networks over two or more (up to a total of seven) TOSHIBA portable computers using these cards. Please contact TOSHIBA computer product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or pcsupport.toshiba.com in the United States for more information.

When you use *Bluetooth* cards from TOSHIBA close to 2.4 GHz Wireless LAN devices, *Bluetooth* transmissions might slow down or cause errors. If you detect certain interference while you use *Bluetooth* cards from TOSHIBA, always change the frequency, move your computer to the area outside of the interference range of 2.4 GHz Wireless LAN devices (40 meters/43.74 yards or more) or stop transmitting from your computer. Please contact TOSHIBA computer product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or pcsupport.toshiba.com in the United States for more information.

Bluetooth and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use *Bluetooth* and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection. If you should experience any such problem, immediately turn off either one of your *Bluetooth* or Wireless LAN. Please contact Toshiba computer product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or pcsupport.toshiba.com in the United States for more information.

Approved Countries/Regions for use (*Bluetooth*® wireless technology)

Bluetooth® Card from Toshiba equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

Argentina	Australia	Austria
Belgium	Bulgaria	Canada
Chile	China	Cyprus
Czech Republic	Denmark	Egypt
Estonia	Finland	France
Germany	Greece	Hong Kong
Hungary	Iceland	Ireland
Italy	Japan	Jordan
Korea	Kuwait	Latvia
Lebanon	Liechtenstein	Lithuania
Luxembourg	Malta	Netherlands
New Zealand	Norway	Oman
Peru	Philippines	Poland
Portugal	Singapore	Slovakia
Slovenia	Spain	Sweden
Switzerland	Thailand	UK
Uruguay	USA	Venezuela

Bluetooth® Wireless Technology and Your Health

The products with *Bluetooth*® wireless technology, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by devices with *Bluetooth* wireless technology however is much less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because products with *Bluetooth* wireless technology operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes *Bluetooth* wireless technology is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of *Bluetooth* wireless technology may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- ❖ Using the equipment with *Bluetooth* wireless technology on board airplanes, or
- ❖ In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use the device with *Bluetooth* wireless technology prior to turning on the equipment.

CAUTION

Exposure to Radio Frequency Radiation

The radiated output power of the *Bluetooth* Card from TOSHIBA is far below the FCC radio frequency exposure limits. Nevertheless, the *Bluetooth* Card from TOSHIBA shall be used in such a manner that the potential for human contact during normal operation is minimized.

Regulatory statements

This product complies with any mandatory product specification in any country/region where the product is sold. In addition, the product complies with the following:

European Union (EU) and EFTA

This equipment complies with the R&TTE directive 1999/5/EC and has been provided with the CE mark accordingly.

Canada — Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

Taiwan

Article 14	Unless approved, for any model accredited low power radio frequency electric machinery, any company, trader or user shall not change the frequency, increase the power or change the features and functions of the original design.
Article 17	Any use of low power radio frequency electric machinery shall not affect aviation safety and interfere with legal communications. In the event interference is caused, the use of such electric machinery shall be immediately discontinued. Operation of such products can be resumed only when they are modified and can no longer cause interference.

The legal communications mentioned in the above item refer to radio communications operated in accordance with telecommunication laws and regulations.

Low power radio frequency electric machinery shall resist against interference from legal communications or from industrial, scientific and medical radio emission electric machinery.

Using this Equipment in Japan

In Japan, the frequency bandwidth of 2,400 MHz to 2,483.5 MHz for second generation low-power data communication systems such as this equipment overlaps that of mobile object identification systems (premises radio station and specified low-power radio station).

1. Sticker

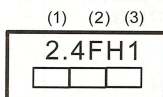
Please put the following sticker on devices incorporating this product.

The frequency bandwidth of this equipment may operate within the same range as industrial devices, scientific devices, medical devices, microwave ovens, licensed radio stations and non-licensed specified low-power radio stations for mobile object identification systems (RFID) used in factory product lines (Other Radio Stations).

1. Before using this equipment, ensure that it does not interfere with any of the equipment listed above.
2. If this equipment causes RF interference to other radio stations, promptly change the frequency being used, change the location of use, or turn off the source of emissions.
3. Contact TOSHIBA Direct PC if you have problems with interference caused by this product to Other Radio Stations.

2. Indication

The indication shown below appears on this equipment.



(4)

- 1 2.4: This equipment uses a frequency of 2.4 GHz.
- 2 FH: This equipment uses FH-SS modulation.
- 3 The interference range of this equipment is less than 10m.
- 4 This equipment uses a frequency bandwidth from 2,400 MHz to 2,483.5 MHz. It is impossible to avoid the band of mobile object identification systems.

3. TOSHIBA Direct PC

Monday – Friday: 10:00 – 17:00

Toll Free Tel: 0120-15-1048

Direct Dial: 03-3457-4850

Fax: 03-3457-4868

Device Authorization

This device obtains the Technical Regulation Conformity Certification, and it belongs to the device class of radio equipment of low-power data communication system radio station stipulated in the Radio Law of Japan.

The Name of the radio equipment: EYXF2CS

TELECOM ENGINEERING CENTER

Approval Number: 01NYDA1305

The following restrictions apply:

- ❖ Do not disassemble or modify the device.
- ❖ Do not install the embedded wireless module into other device.

Optical Drive Safety Instructions

⚠ DANGER

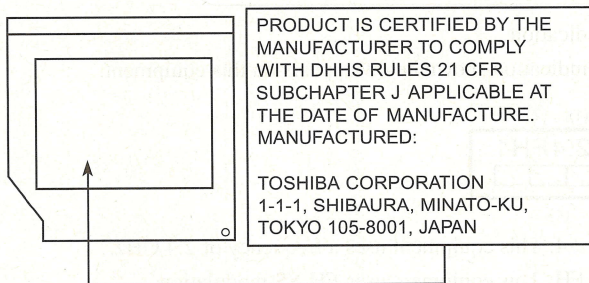
This appliance contains a laser system and is classified as a CLASS 1 LASER PRODUCT. To use this model properly, read the user's guide carefully and keep it for your future reference.

Never attempt to disassemble, adjust or repair an optical drive. You could damage the drive. You would also be exposed to laser light or other safety hazards, resulting in serious injury. Always contact an authorized Toshiba service provider, if any repair or adjustment is required.

CLASS 1 LASER PRODUCT
LASER KLASSE 1

Location of the Required Label

(Sample shown below. Location of the label and manufacturing information may vary.)



Copyright

This guide is copyrighted by Toshiba America Information Systems, Inc. with all rights reserved. Under the copyright laws, this guide cannot be reproduced in any form without the prior written permission of Toshiba. No patent liability is assumed, however, with respect to the use of the information contained herein.

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Computer Disposal Information

Lamp contains mercury. Disposal of this product may be regulated due to environmental considerations. For disposal, reuse or recycling information, please contact your local government or the Electronic Industries Alliance at www.eiae.org.

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Introduction

Welcome to the world of powerful and portable multimedia computers!

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.



Your Computer model may be ENERGY STAR® compliant. If the model you purchased is compliant, it is labeled with the ENERGY STAR® logo on the computer and the following information applies.

Toshiba is a partner in the Environmental Protection Agency's (EPA) ENERGY STAR® Program and has designed this computer to meet the latest ENERGY STAR® guidelines for energy efficiency. Your computer ships with the power management options preset to a configuration that will provide the most stable operating environment and optimum system performance for both AC power and battery modes.

To conserve energy, your computer is set to enter the low-power Sleep mode which shuts down the system and display within 15 minutes of inactivity in AC power mode. We recommend that you leave this and other energy saving features active, so that your computer will operate at its maximum energy efficiency. You can wake the computer from Sleep mode by pressing the power button. See the "Mobile Computing" section of the Toshiba User's Guide for more information on using power management settings to conserve computer energy.

According to the EPA, a computer meeting the new ENERGY STAR® specifications will use between 20% and 50% less energy depending on how it is used. If all U.S. household and businesses replaced old computers with new ENERGY STAR® qualified models, we would save more than \$1.8 billion in energy costs over the next five years and avoid greenhouse gas emissions equivalent to more than 2.7 million cars.

If every computer purchased by businesses next year met the new ENERGY STAR® requirements, businesses would save more than \$210 million over the lifetime of those models. That is equivalent to lighting 120 million square feet of U.S. commercial building space each year.

During 2006 Americans, with the help of ENERGY STAR®, saved about \$14 billion dollars on their utility bills and avoided greenhouse gas emissions equivalent to those from 25 million vehicles.

Visit <http://www.energystar.gov> or <http://www.energystar.gov/powermanagement> for more information regarding the ENERGY STAR® Program.

NOTE

This computer is compatible with European Union Directive 2002/95/EC, Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), which restricts use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE. Toshiba requires its computer component suppliers to meet RoHS requirements and verifies its suppliers' commitment to meeting RoHS requirements by conducting component sampling inspections during the product design approval process.

This guide

This guide offers important information about your computer, including solutions to the most common problems.

For more detailed information, descriptions of other features, and more extensive troubleshooting guidelines, see the electronic user's guide preinstalled on your system. It is also available on the Web at pcsupport.toshiba.com.

Safety icons

This guide contains safety instructions that must be observed to avoid potential hazards that could result in personal injuries, damage to your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and icons highlight these instructions as follows:

▲ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

Provides important information.

Other icons used

Additional icons highlight other helpful or educational information:



TECHNICAL NOTE: This icon indicates technical information about the computer.



HINT: This icon indicates helpful hints and tips.



DEFINITION: This icon indicates the definition of a term used in the text.

Other documentation

Your computer comes with the following documentation in addition to this resource guide:

- ❖ An electronic version of the user's guide.
- ❖ It may also contain guides for other programs that may come with your system.

For accessory information, visit Toshiba's Web site at accessories.toshiba.com.

Setting up your computer and getting started

The Toshiba Instruction Manual for Safety and Comfort, included with your computer, contains helpful information for setting up your work environment and tips for working comfortably throughout the day.

NOTE

Please handle your computer carefully to avoid scratching or damaging the surface.

Precautions

Your computer is designed to provide optimum safety and ease of use, and to withstand the rigors of travel. You should observe certain precautions to further reduce the risk of personal injury or damage to the computer.

- ❖ Avoid prolonged physical contact with the underside or surface of the computer.

⚠ WARNING

Never allow any liquids to spill into any part of your computer, and never expose the computer to rain, water, seawater or moisture. Exposure to liquid or moisture can cause electric shock or fire, resulting in damage or serious injury. If any of these eventualities should accidentally occur, immediately:

1. Turn off the computer.
2. Disconnect the AC adaptor from the power plug socket and computer.
3. Remove the battery pack.

Failure to follow these instructions could result in serious injury or permanent damage to the computer.

Do not turn on the power again until you have taken the computer to an authorized service center.

⚠ CAUTION

- ❖ Avoid prolonged physical contact with the underside or surface of the computer.
- ❖ Computer base and palm rest can become hot! Avoid prolonged contact to prevent heat injury to skin.

Read the “Avoid extended contact between computer base/palm rest and skin” section in the “Instruction Manual for Safety and Comfort” that is shipped with your computer.

CAUTION

Never place a heavy object on the computer and be careful not to drop a heavy object onto the computer. It could damage the computer or cause system failure.

Your computer's features and specifications

Certain computer chassis are designed to accommodate all possible configurations for an entire product Series. Your select model may not have all the features and specifications corresponding to all of the icons or switches shown on the computer chassis, unless you have selected all those features.

This information applies to all the features and icons described in this guide.

Below are examples of some of the many possible icons used on your computer:



(Sample Illustration) System icons

Connecting to a power source

Your computer requires power to operate. Use the power cord/cable and AC adaptor to connect the computer to a live electrical outlet, or to charge the computer's battery.

⚠ WARNING

Never pull on a power cord/cable to remove a plug from a socket. Always grasp the plug directly. Failure to follow this instruction may damage the cord/cable, and/or result in a fire or electric shock, possibly resulting in serious injury.

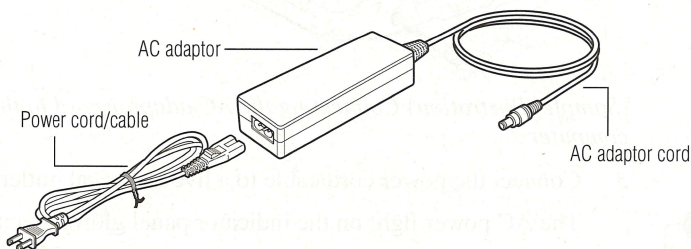
⚠ WARNING

Always confirm that the power plug (and extension cable plug if used) has been fully inserted into the socket, to ensure a secure electrical connection. Failure to do so may result in a fire or electric shock, possibly resulting in serious injury.

Be careful if you use a multiple connector. An overload on one socket could cause a fire or electric shock, possibly resulting in serious injury.

⚠ WARNING

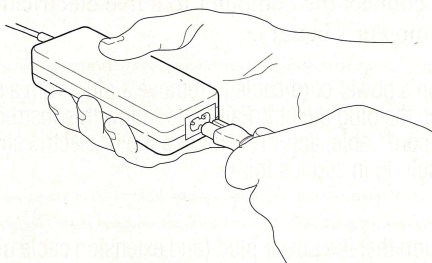
Always use the TOSHIBA AC adaptor that was provided with your computer and the TOSHIBA Battery Charger (that may have been provided with your computer), or use AC adaptors and battery chargers specified by TOSHIBA to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adaptor or Battery Charger could cause fire or damage to the computer, possibly resulting in serious injury. TOSHIBA assumes no liability for any damage caused by use of an incompatible adaptor or charger.



(Sample Illustration) Power cord/cable and AC adaptor

To connect AC power to the computer:

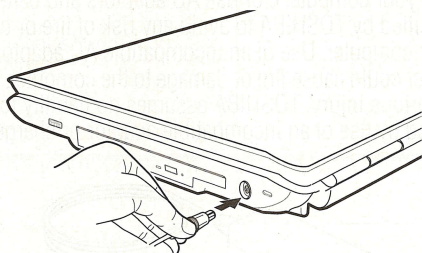
- 1 Connect the power cord/cable to the AC adaptor.



(Sample Illustration) Connecting the power cord/cable to the AC adaptor

⚠ WARNING Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.***

- ⊖ ⊕ 2 Plug the AC adaptor cord into the DC-IN on the side of the computer.



(Sample Illustration) Connecting the AC adaptor cord to the computer

- 3 Connect the power cord/cable to a live electrical outlet.



The AC power light on the indicator panel glows green.

⚠ WARNING Never attempt to connect or disconnect a power plug with wet hands. Failure to follow this instruction could result in an electric shock, possibly resulting in serious injury.

Connecting a printer

NOTE

Your printer documentation may require you to install the printer software before physically connecting the printer to your computer. If you do not install the software as instructed by the printer manufacturer, the printer may not function correctly.

Read the documentation that came with your printer. Follow the manufacturer's instructions when connecting a printer.

You can connect a USB-compatible printer to your computer through the USB ports. To determine if the printer is USB-compatible, check its documentation.

To make the connection, you need a suitable USB cable which may come with your printer. If a USB cable was not included with your printer, you can purchase one from a computer or electronics store.

If your printer supports Plug and Play, your computer may automatically recognize the printer; the printer is then ready for use. Refer to your printer documentation for further instructions.



TECHNICAL NOTE: To determine if your printer supports Plug and Play, check its documentation.

If your printer does not support Plug and Play, you can set up the printer as described in “Setting up a printer” in the electronic user’s guide.

To connect a printer to your computer:



- 1 Connect the printer cable to the printer and then connect the other end to one of the computer’s USB ports.
- 2 Plug the printer’s power cable into a live AC outlet.

See your printer documentation for additional configuration steps, or see “Setting up a printer” in the electronic user’s guide.

Adding memory (optional)



HINT: To purchase additional memory modules, see the accessories information packaged with your system or visit accessories.toshiba.com.

Your computer comes with enough memory to run most of today’s popular applications. You may want to increase the computer’s memory if you use complex software or process large amounts of data.

Installing a memory module

Memory modules can be installed in the memory module slots on the base of the computer. You will need a small Phillips screwdriver for this procedure.

CAUTION

If the computer has been running recently, the memory module may be hot. The surrounding area may also be hot. Allow the module to cool to room temperature before replacing it. Avoid touching the cover, the module, and the surrounding area before they have cooled. Failure to follow these directions could result in minor bodily injury.

CAUTION

To avoid damaging the computer's screws, use a small Phillips screwdriver that is in good condition.

CAUTION

Installing a memory module with the computer's power on may damage the computer, the module, or both.

The computer has two memory slots—Slot A and Slot B. You can install one or two memory modules.

CAUTION

Before you install or remove a memory module, turn off the computer using the Start menu. If you install or remove a memory module while the computer is in Sleep or Hibernation mode, data will be lost.

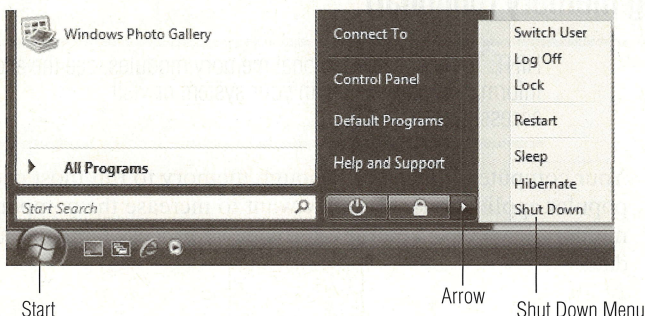
NOTE

For this model, Slot A is the bottom slot. Slot B is the top slot. If only one memory module is to be installed, it must be installed in Slot A.

If the computer is on, begin at step 1; otherwise, skip to step 3.

- 1 Click **Start**, and then click the arrow next to the lock button in the lower-right corner of the Start menu.

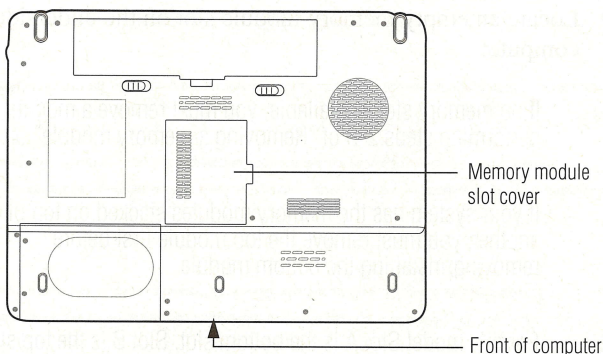
The Shut Down menu appears.



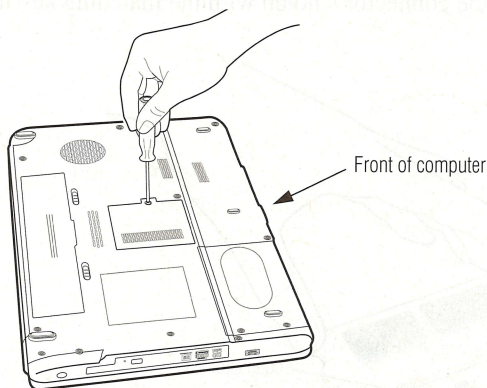
(Sample Image) Shut Down menu

2 Click Shut Down.

The operating system turns off the computer.

3 Unplug and remove any cables connected to the computer, including the AC adaptor.**4 Remove the main battery. For information on removing the main battery, see “Removing the battery from the computer” on page 43.****5 Close the display panel and turn the computer upside down to locate the memory module slot cover.**

(Sample Illustration) Locating the memory module slot cover

6 Using a small Phillips screwdriver, loosen the captive screw that secures the memory module slot cover.

(Sample Illustration) Removing the memory module slot cover

7 Remove the memory module slot cover.**8 Place the screw and the cover in a safe place so that you can retrieve them later.**

CAUTION

Static electricity can damage the memory module. Before you handle the module, touch a grounded metal surface to discharge any static electricity you may have built up.

CAUTION

Avoid touching the connector on the memory module or on the computer. Grease or dust on the connector may cause memory access problems.

- 9 Carefully remove the new memory module from its antistatic packaging, without touching its connector.
- 10 Locate an empty memory module slot on the underside of the computer.

NOTE

If no memory slot is available, you must remove a module by performing steps 2-3 of "Removing a memory module" on page 32.

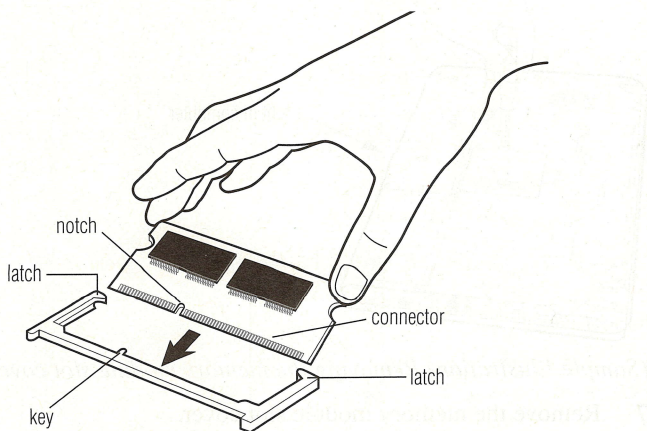
NOTE

If your system has the memory modules stacked on top of one another, you must remove the top module first before removing/installing the bottom module.

NOTE

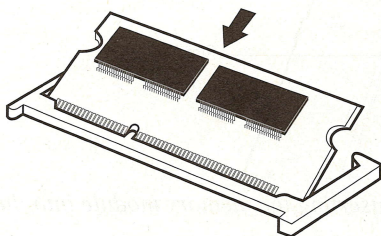
For this model Slot A is the bottom slot. Slot B is the top slot. If only one memory module is to be installed, it must be installed in Slot A.

- 11 Pick up the memory module by its sides, avoiding any contact with its connector. Position the module toward the socket, aligning the connector's notch with the matching key in the socket.



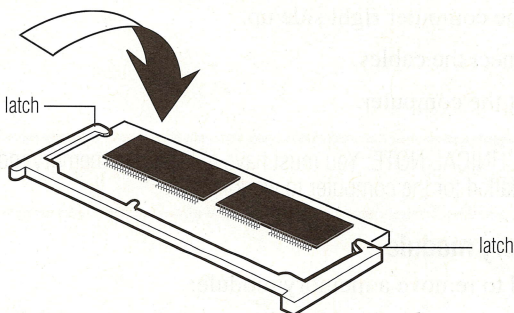
(Sample Illustration) Aligning the memory module with the socket

- 12** Firmly press the memory module into the memory slot's socket at approximately a 30-degree angle (to the horizontal surface of the computer).



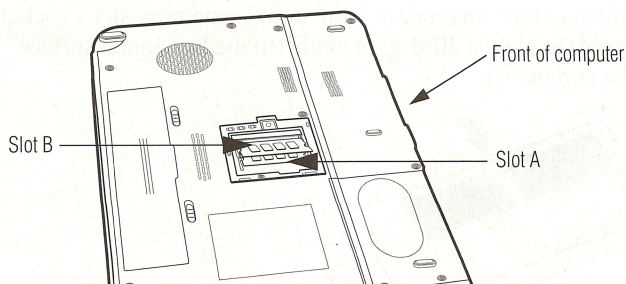
(Sample Illustration) Inserting the memory module into the socket

- 13** Once the module's connector is fully inserted into the socket, press downward on the top edge of the module to seat the module into the latches at the sides of the socket. These latches should "snap" into place securely with the corresponding cutouts in the side of the module. If the latches and cutouts do not line up correctly, repeat steps 12-13.



(Sample Illustration) Pressing down on the memory module

Do not force the memory module into position. The memory module should be completely inserted into the socket and level when secured in place.



(Sample Illustration) Inserting the memory module into the slot

NOTE

For this model Slot A is the bottom slot. Slot B is the top slot. If only one memory module is to be installed, it must be installed in Slot A.

- 14 Replace the memory module slot cover and secure it using the screw.
- 15 Re-insert the main battery. For more information on inserting the main battery, see “Inserting a charged battery” on page 45.
- 16 Turn the computer right side up.
- 17 Reconnect the cables.
- 18 Restart the computer.



TECHNICAL NOTE: You must have at least one memory module installed for the computer to work.

Removing a memory module

If you need to remove a memory module:

- 1 Complete steps 1–8 in “Installing a memory module” on page 28 to shut down the computer and open the memory module slot cover.

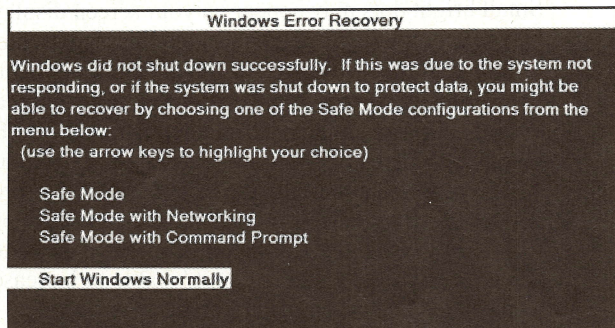
CAUTION

Do not try to remove a memory module with the computer turned on. You can damage the computer and the memory module.

Do not remove the memory module while the computer is in Sleep or Hibernation mode. The computer could hang up the next time you turn it on and data in memory will be lost. In either of the above cases, the Sleep configuration will not be saved.

NOTE

The following screen may appear when you turn on the power:



If "Start Windows® Normally" is highlighted, then press Enter.

If one of the Safe Mode options is highlighted, it is best to press Enter to go into Safe Mode, then shut down and restart the system, at which time Windows® should boot back up normally.

When Safe Mode is suggested, this could be a sign that you may need to scan your internal storage drive for errors or defragment the drive. If so, consult Windows® Help and Support.

- 2 Pull the latches away from the memory module.

The memory module pops up slightly.

NOTE

If your system has the memory modules stacked on top of one another, you must remove the top module first before removing/installing the bottom module.

- 3 Gently lift the memory module to a 30-degree angle and slide it out of the slot.
- 4 Replace the memory module slot cover and secure it using the screw.
- 5 Re-insert the main battery. For more information on inserting the main battery, see "Inserting a charged battery" on page 45.
- 6 Turn the computer right side up.
- 7 Reconnect the cables.
- 8 Restart the computer.



TECHNICAL NOTE: You must have at least one memory module installed for the computer to work.

Your computer's TFT display

Small bright dots may appear on your screen display when you turn on your computer. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology. When the computer is operated on battery power, the screen will dim and you may not be able to increase the brightness of the screen while on battery power.

Inserting a PC Card

(Available on certain models)

Before you insert a PC Card, refer to the documentation that comes with the card to see if you need to do anything before you insert it. You may insert one Type I or Type II card into the computer's PC Card slot.

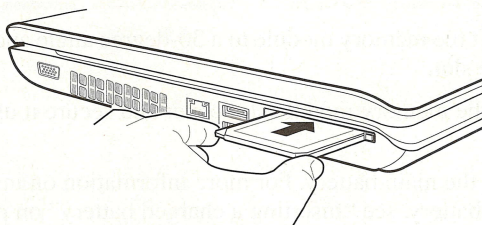
To insert a PC Card:

- 1 Locate the PC Card slot on the side of the computer.

NOTE

You may first need to remove the card slot protector before you can insert a card.

- 2 Insert the PC Card.



(Sample Illustration) Inserting a PC Card

- 3 When the card is almost all the way into the slot, push firmly but gently to ensure a firm connection with the computer. Do not force the card into position.

Removing a PC Card

CAUTION

Be sure to disable the PC Card prior to removing it. Otherwise, the system may be damaged.

NOTE

Before removing a PC Card, make sure that no applications or system services are using the card.



- 1 Prepare the card for removal by clicking the **Safely Remove Hardware** icon in the Notification Area and then selecting the PC Card device.

If the system is unable to prepare the card for safe removal, a message will tell you to try again later. If the card can be removed now, the system displays **Safe To Remove Hardware**.

- 2 Locate the PC Card eject button.
- 3 Press the PC Card eject button once to pop it out slightly, then push it in to remove the PC Card.

The PC Card ejects slightly from the slot.

- 4 Grasp the edges of the PC Card and slide it out of the slot.

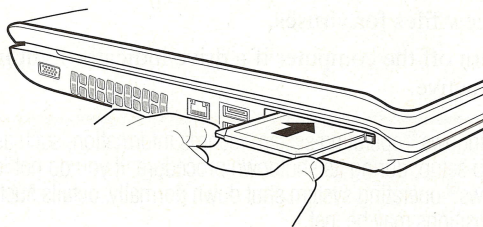
Inserting an ExpressCard®

(Available on certain models)

Before you insert an ExpressCard®, refer to the documentation that comes with the card to see if you need to do anything before you insert it.

To insert an ExpressCard:

- 1 Locate the ExpressCard slot on the side of the computer.
- 2 Insert the ExpressCard.



(Sample Illustration) Inserting an ExpressCard

- 3 When the card is almost all the way into the slot, push firmly but gently to ensure a firm connection with the computer. Do not force the card into position.

Removing an ExpressCard®



- 1 Prepare the card for removal by clicking the **Safely Remove Hardware** icon in the Notification Area and then selecting the card or device you want to remove.

If the system is unable to prepare the card for safe removal, a message will tell you to try again later. If the card can be removed now, the system displays **Safe to Remove Hardware**.

- 2 Locate the ExpressCard® eject button.
- 3 Press the ExpressCard eject button once to pop it out slightly, and push it in to remove the ExpressCard.
The ExpressCard ejects slightly from the slot.
- 4 Grasp the edges of the ExpressCard and slide it out of the slot.

Learning the basics

Computing tips

- ❖ Save your work frequently.

Your work stays in the computer's temporary memory until you save it to the internal storage drive. If the network you are using goes down and you must restart your computer to reconnect, or your battery runs out of charge while you are working, you will lose all work since you last saved.



HINT: Some programs have an automatic save feature that can be activated. This feature saves your file to the internal storage drive at preset intervals. See your software documentation for details.

- ❖ Back up your files to disks (or other removable media) on a regular basis. Label the backup copies clearly and store them in a safe place.
- ❖ Scan all new files for viruses.
- ❖ Do not turn off the computer if a drive indicator light indicates a drive is active.

NOTE

The Windows® operating system records information, such as your desktop setup, during its shutdown procedure. If you do not let the Windows® operating system shut down normally, details such as new icon positions may be lost.

Using the TouchPad™

The TouchPad™, the small, rectangular area located in front of the keyboard, is sensitive to touch and enables you to move the cursor with the stroke of a finger. Simply move your finger on the TouchPad in the direction you would like to move the cursor:

- ❖ To move the cursor to the top of the page, push your finger forward on the TouchPad.
- ❖ To move the cursor to the bottom of the page, drag your finger toward yourself.
- ❖ To move the cursor to the right side of the page, slide your finger across the TouchPad from left to right.
- ❖ To move it to the left side, slide your finger from right to left.

NOTE Because the TouchPad is much smaller than the display screen, moving your cursor across the screen often means having to move your finger several times across the TouchPad in the preferred direction.

Once you have positioned your cursor, you can click it into place by either double-tapping the TouchPad or clicking the control buttons.

Scrolling with the TouchPad™

There are two active regions on the TouchPad™ that allow you to scroll as you would with any wheel device on a mouse or trackball.

To scroll vertically, run your finger up or down along the right edge of the TouchPad. To scroll horizontally, run your finger along the bottom edge of the TouchPad. This feature can be disabled or changed in the Mouse Properties dialog box.

Control buttons

When a step instructs you to click or choose an item, move the cursor to the item, then press and release the primary (left-hand) button. To double-click, press the primary button twice in rapid succession. The primary button usually corresponds to the left mouse button.

The function of the secondary (right-hand) button depends on the program you are using. It usually corresponds to the right mouse button (“right-clicking”). Check your program’s documentation to determine whether it uses the right mouse button.

Using the optical drive

Optical storage has become the preferred medium for software, music, and video. Digital versatile discs (DVDs) provide a significant increase in data storage and support features that are not available on any other video platform. These features include wide-screen movies, multiple language tracks, digital surround sound, multiple camera angles, and interactive menus.

For these reasons, your computer may come with an optical drive.



TECHNICAL NOTE: Your optical drive is set to play region 1 (North America) DVD-ROMs. If you play a DVD disc from another region, the drive will automatically change to play in the format of the other region. The drive will allow you to change regions four times. On the fourth change, the region will be “locked in.” That is, the drive will only play DVDs from that last region. Note that changing from region 1 to region 2 and back to region 1 is counted as two changes.

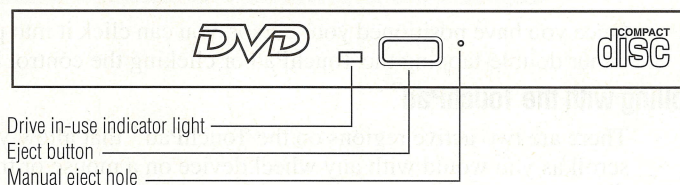
NOTE

For optimum DVD performance, it is recommended that you play DVDs while running the computer on AC power.

NOTE

When viewing DVD movies use the DVD Player software that came with your computer.

Your optical drive may look like this:



(Sample Illustration) Optical drive

Drive in-use indicator light—Indicates when the drive is in use.

Eject button—Press to release the disc tray.

CAUTION

Do not press the eject button or turn off the computer while the drive in-use indicator light is glowing. Doing so could damage the disc or the drive.

When the disc tray is open, be careful not to touch the lens or the area around it. Doing so could cause the drive to malfunction.

Manual eject hole—Use if you need to release the disc tray when the power is off. Use a straightened paper clip or other narrow object to press the manual eject button located inside the hole.

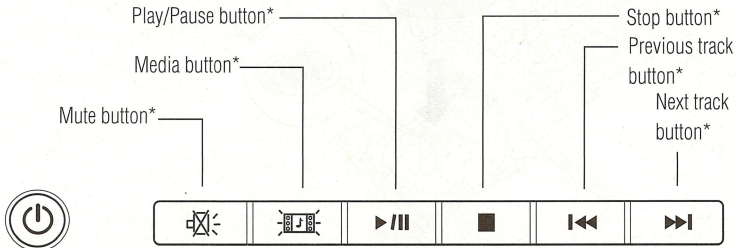
CAUTION

Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

Media control buttons

(Available on certain models)

The media control buttons located on the system control panel above the keyboard let you mute the sound and play audio CDs or DVD movies when the computer is on.



*Available on certain models

(Sample Illustration) Media control buttons

The **Mute button** allows you to mute the sound.

The **Media button** activates a media playing application that can play audio CDs or DVD movies.

The **Play/Pause button** starts playing the disc or makes it pause if currently playing.

The **Stop button** stops a disc that is currently playing.

The **Previous track button** returns to the preceding track on the disc.

The **Next track button** skips to the following track on the disc.

Inserting an optical disc

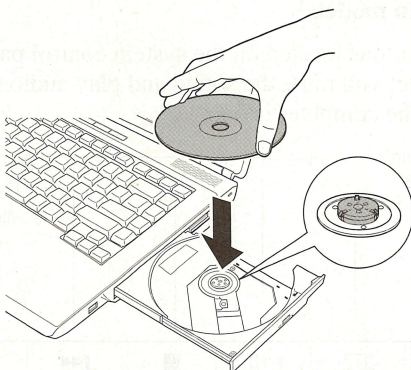
⚠ CAUTION

Before putting on headphones to listen, turn the volume down. Do not set the volume too high when using the headphones. Continuous exposure to loud sound can harm your hearing.

To insert an optical disc into the drive:

- 1 Make sure the computer is turned on.
The drive will not open if the computer's power is off.
- 2 Make sure the drive's in-use indicator light is off.
- 3 Press the drive's eject button.
The disc tray slides partially out of the drive (about 1 inch).
- 4 Grasp the tray and pull it fully open.
- 5 Hold the disc by its edges and check that it is free of dust.
If the disc is dusty, clean it.

- 6 Place the disc carefully in the disc tray, label side up.



(Sample Illustration) Positioning the disc in the drive

- 7 Gently press the disc onto the center spindle until it clicks into place.

CAUTION

Handle DVDs and CDs carefully, making contact only with the center hole and edge. Do not touch the surface of the disc. Do not stack discs. If you incorrectly handle the discs, you could lose data.

- 8 Make sure the disc is completely on the spindle and is lying flat on the tray.

CAUTION

If you insert the disc incorrectly, it may jam the drive. If this happens, contact Toshiba support for assistance.

- 9 Push the disc tray in by pressing gently on the center of the tray until it clicks into place.

You are ready to use the disc.

Removing a disc with the computer on

To remove an optical disc with the computer turned on:

- 1 Press the eject button on the drive.

CAUTION

Do not press the eject button while the in-use indicator light is glowing. Doing so could damage the disc or the drive.

Also, if the disc is still spinning when you open the disc tray, wait for it to stop spinning before you remove it.

-
- 2 Pull the tray out until it is fully open, remove the disc, and place it in its protective cover.
- 3 Gently press the tray in to close it.

Removing a disc with the computer off

To remove a disc with the computer turned off:

- 1 Insert a slender object, such as a straightened paper clip, into the manual eject hole.

The disc tray slides partially out of the drive (about 1 inch).

CAUTION

Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

- 2 Pull the tray out until it is fully open, remove the disc, and place it in its protective cover.
- 3 Gently press the tray in to close it.

Moving the computer

Before moving your computer, even across the room, make sure all drive activity has ended (the drive indicator light stops glowing) and all external peripheral cables are disconnected.

CAUTION

Do not pick up the computer by its display panel or by the back. Doing so could damage the system.

Mobile computing

Running the computer on battery power

Battery life may vary considerably from specifications depending on product model, configuration, applications, power management settings and features utilized, as well as the natural performance variations produced by the design of individual components. Published battery life numbers are achieved on select models and configurations tested by Toshiba at the time of publication. Recharge time varies depending on usage. Battery may not charge while the computer is consuming full power.

After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information included with your computer or visit the Toshiba Web site at accessories.toshiba.com. Use only batteries designed to work with your Toshiba computer.

To ensure that the battery maintains its maximum capacity, operate the computer on battery power at least once a month. The Lithium-Ion battery has no memory effect so it is not necessary to let the battery fully discharge each time. However, for better accuracy of the battery meter, it is helpful to fully discharge the battery periodically. Please see “Maintaining your battery” on page 46 for procedures. If the computer is continuously operated on AC power, either through an AC adaptor or a port replicator (if applicable to your system), for an extended period (more than a month), the battery may fail to retain a charge. This may shorten the life of the battery, and may cause the battery meter to be inaccurate.

The computer also has an internal real-time-clock (RTC) battery.

The RTC battery powers the RTC memory that stores your system configuration settings and the current time and date information. It maintains this information for up to a month while the computer is turned off.



TECHNICAL NOTE: Depending on your system, the RTC battery may only charge while the computer is turned on.

Monitoring main battery power



The computer's main battery light gives you an indication of the main battery's current charge. The following also applies to the secondary battery (available on certain models) if installed.


- ❖ Glows amber while the main battery is being charged (AC adaptor connected)
- ❖ Glows green when the main battery is fully charged
- ❖ Is unlit when the battery has discharged, the battery is not charging, or the AC adaptor is not plugged into the computer or AC outlet

NOTE

Battery life and charge time may vary, depending upon power management settings, applications and features used.

- ❖ Flashes amber when the main battery charge is low and it is time to recharge the main battery or plug in the AC adaptor



HINT: Be careful not to confuse the battery light () with the on/off light ().

When the on/off light flashes amber, it indicates that the system is suspended (using the Windows® operating system Sleep command).



TECHNICAL NOTE: The recharging of the battery cannot occur when your computer is using all of the power provided by the AC adaptor to run applications, features, and devices. Your computer's Power Options utility can be used to select a power level setting that reduces the power required for system operation and will allow the battery to recharge.

Setting battery notifications

Your computer can be configured to warn you when the battery is running low. For more information, see “Setting battery notifications” in the electronic user's guide.

Changing the main battery

When your main battery has run out of power, you have two options: plug in the AC adaptor or install a charged main battery.

▲ WARNING

Never short circuit the battery pack by either accidentally or intentionally bringing the battery terminals in contact with another conductive object. This could cause serious injury or fire, and could also damage the battery pack and computer.

- ❖ Never expose a battery pack to abnormal shock, vibration or pressure. The battery pack's internal protective device could fail, causing it to overheat or ignite, resulting in caustic liquid leakage, or explosion or fire, possibly resulting in death or serious injury.



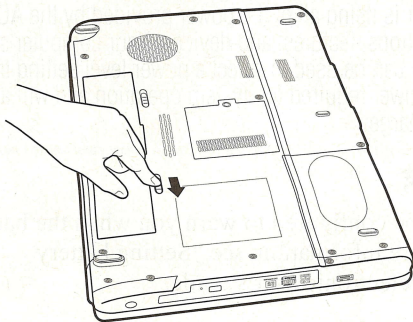
TECHNICAL NOTE: To avoid losing any data, save your files and then either completely shut down your computer or put it into Hibernation mode before changing the main battery.

Removing the battery from the computer

To remove the battery:

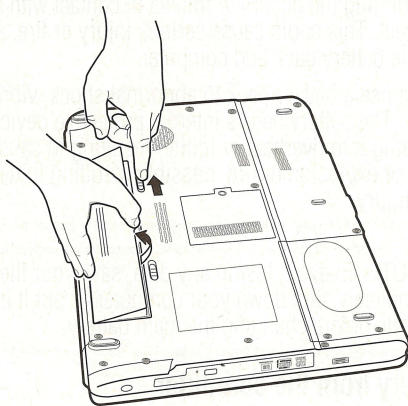
- 1 Save your work.
- 2 Turn off the computer or place it in Hibernation mode according to the instructions in “Using and configuring Hibernation mode” in the electronic user's guide.
- 3 Unplug and remove any cables connected to the computer, including the AC adaptor.
- 4 Close the display panel and turn the computer upside down.

- 5 Slide the battery release lock to the unlocked position.



(Sample Illustration) Unlocking the battery release lock

- 6 Slide the battery release latch to release the battery.
- 7 Pull the discharged battery out of the computer.



(Sample Illustration) Removing the battery

⚠ WARNING

If the battery is leaking or its case is cracked, put on protective gloves to handle it, and discard it immediately. Always dispose of used battery packs in compliance with all applicable laws and regulations. Put insulating tape, such as cellophane tape, on the electrode during transportation to avoid a possible short circuit, fire or electric shock. Failure to do so could possibly result in serious injury.

Inserting a charged battery

To insert a battery:

- 1 Wipe the terminals of the charged battery with a clean cloth to ensure a good connection.
- 2 Insert the charged battery into the slot until the latch clicks.

The battery pack has been designed so that you cannot install it with reverse polarity.

CAUTION

If the battery does not slide into the slot easily, move the battery release lock to the unlocked position and try again. Do not force the battery into position.

- 3 Slide the battery release lock to the locked position.
- 4 Turn the computer right side up.
- 5 Reconnect any cables that were removed in step 3 of "Removing the battery from the computer" on page 43.
- 6 Restart the computer.

Taking care of your battery

The following sections offer tips on how to take care of your battery and prolong its life.

Safety precautions

- ❖ If the battery pack produces an odor, overheats or changes color or shape while it is being used or charged, turn off the computer's power immediately and disconnect the power cord/cable from the power socket. Carefully remove the battery pack from the computer.
- ❖ Do not try to disassemble a battery pack.
- ❖ Do not overcharge or reverse charge a battery. Overcharging will shorten its life, and reverse charging could damage it.
- ❖ Avoid touching the metal terminals of the battery with another metal object. Short-circuiting the battery can cause it to overheat and may cause damage to the battery or the computer.
- ❖ Do not incinerate a spent battery, as this could cause it to explode and release caustic liquid.
- ❖ If a battery is leaking or damaged, replace it immediately. Use protective gloves when handling a damaged battery.
- ❖ To replace the main battery, use an identical battery that you can purchase through the Toshiba Web site at accessories.toshiba.com.

- ❖ A reverse polarity condition should be avoided with all batteries. The main battery is designed so that it cannot be installed in reverse polarity.
- ❖ Charge the battery only in the computer or in a battery charger designated as an approved option.
- ❖ When you install the battery pack, you should hear a click when it is seated properly.
- ❖ Do not expose the battery pack to fire. The battery pack could explode.

Maintaining your battery

Fully discharging your battery pack will allow better accuracy of the battery meter.

To fully discharge your battery pack:

- ❖ Periodically, disconnect the computer from a power source and operate it on battery power until the battery pack fully discharges. Before doing so, follow the steps below:
 - 1 Turn off the computer's power.
 - 2 Disconnect the AC adaptor and turn on the computer's power. If it does not turn on, go to step 4.
 - 3 Operate the computer on battery power for five minutes. If the battery pack has at least five minutes of operating time, continue operating until the battery pack is fully discharged. If the battery light flashes or there is some other warning to indicate a low battery, go to step 4.
 - 4 Connect the AC adaptor to the computer and the power cord/cable to a power outlet. The DC-IN or AC power-light should glow green, and the battery light should glow amber to indicate that the battery pack is being charged. If the DC-IN or AC power-light indicator does not glow, power is not being supplied. Check the connections for the AC adaptor and power cord/cable.
 - 5 Charge the battery pack until the battery light glows green.
- ❖ If you have extra battery packs, rotate their use.
- ❖ If you will not be using the system for an extended period, more than one month, remove the battery pack.
- ❖ If you are not going to use the computer for more than eight hours, disconnect the AC adaptor.
- ❖ Store spare battery packs in a cool dry place out of direct sunlight.

Disposing of used batteries

The life of a battery pack depends on usage. When the battery pack needs to be replaced, the main battery light flashes amber shortly after you have fully recharged the battery.

You must discard a battery if it becomes damaged.

⚠ WARNING

Never attempt to dispose of a battery pack by burning or by throwing it into a fire, and never allow exposure to a heating apparatus (e.g., microwave oven). Heat can cause a battery pack to explode and/or release caustic liquid, both which may possibly cause serious injury.

Always dispose of used battery packs in compliance with all applicable laws and regulations. Put insulating tape, such as cellophane tape, on the electrode during transportation to avoid a possible short circuit, fire or electric shock. Failure to do so could possibly result in serious injury.

⚠ WARNING

Always use the battery pack supplied as an accessory or an equivalent battery pack specified in the User's Manual. Other battery packs have different voltage and terminal polarities. Use of non-conforming battery packs could generate smoke or cause fire or rupture, possibly resulting in serious injury.

After repeated use, the batteries will finally lose their ability to hold a charge and you will need to replace them. Under certain applicable laws and regulations, it may be illegal to dispose of old batteries by placing them in the trash.

Please be kind to our shared environment. Check with your local government authority for details regarding where to recycle old batteries or how to dispose of them properly. If you cannot find the information you need elsewhere, call Toshiba at: (800) 457-7777.

In addition, Toshiba's recycling initiatives include recycling programs, events and consumer promotions. For details, visit www.ToshibaDirect.com, select Recycling & Trade-in programs, or enter **Recycle** in the search bar.

Toshiba is dedicated to preserving the environment by sponsoring **Call2Recycle™**, a program of the Rechargeable Battery Recycling Corporation. For more information and for drop-off locations, visit www.rbrcc.org or call 1-800-822-8837.

Notice regarding CR coin cell batteries, applicable to California, U.S.A. only:

Perchlorate Material - special handling may apply.

See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>

If something goes wrong

Problems that are easy to fix

Your program stops responding.

If you are working with a program that suddenly freezes all operations, chances are the program has stopped responding. You can exit the failed program without shutting down the operating system or closing other programs.

To close a program that has stopped responding:

- 1 Press **Ctrl, Alt, and Del** simultaneously (once), then click **Start Task Manager**.

The Windows® Task Manager window appears.

- 2 Click the **Applications** tab.

If a program has stopped responding, the words “not responding” appear beside its name in the list.

- 3 Select the program you want to close, then click **End Task**.

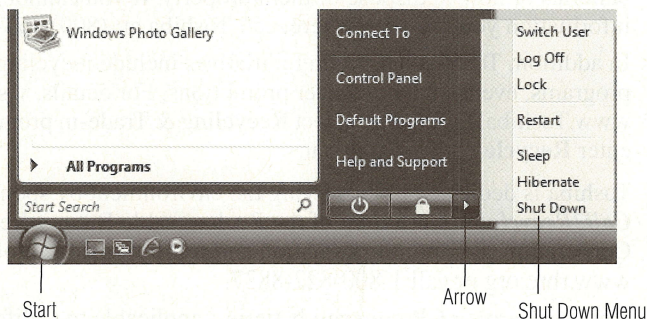
Closing the failed program should allow you to continue working. If it does not, continue with the next step.

- 4 Close the remaining programs one by one by selecting the program name, then **End Task**.

To power off your computer:

- 1 Click **Start**, and then click the arrow next to the Lock button in the lower-right part of the Start menu.

The Shut Down menu appears.



(Sample Image) Shut Down menu

- 2 Select **Shut Down**.

The computer shuts down completely.

Problems when you turn on the computer

These problems may occur when you turn on the power.

The computer will not start.

Make sure you attached the AC adaptor and power cord/cable properly or installed a charged battery.

Press and hold the power button for at least 10 seconds.

If you are using the AC adaptor, check that the wall outlet is working by plugging in another device, such as a lamp.

Verify that the computer is on by looking at the on/off indicator. If the indicator is glowing, the computer is on. Also, try turning the computer off and then on.

If you are using an AC adaptor, verify that the computer is receiving power from the external power source by looking at the AC power light. If the indicator is glowing, the computer is connected to a live external power source.

The computer starts but when you press a key nothing happens.

Verify that the active program accepts text input. Try clicking your mouse on an area where you can type text and try typing again.

Your computer may be in Sleep mode and have a software or resource conflict. When this happens turning the power on returns you to the problem instead of restarting the system. To clear the condition, press Ctrl, Alt, and Del simultaneously. Then shut down the computer via software, or follow the steps if your program stops responding (see "Problems that are easy to fix" on page 48).

Clearing the condition may get the computer running, but it will not solve a resource conflict. Read the documentation that came with the conflicting device and "Resolving a hardware conflict" in your electronic user's guide.

The keyboard produces unexpected characters.

A keypad overlay may be on. If the numlock light or cursor control mode light is on, press Fn + F10 to turn off the cursor control mode light, or Fn + F11 to turn off the numlock light.

If the problem occurs when both the keypad overlays are off, make sure the software you are using is not remapping the keyboard.

Refer to the software documentation and check that the program does not assign different meanings to any of the keys.

Display problems

Here are some typical display problems and their solutions:

The screen is blank.

Display Auto Off may have gone into effect. Press any key to activate the screen.

You may have activated the instant password feature by pressing Fn and F1 simultaneously. If you have registered a password, press any key, type the password and press Enter. If no password is registered, press any key. The screen reactivates and allows you to continue working.

If you are using the built-in screen, make sure the display priority is not set for an external monitor. To do this, press Fn and F5 simultaneously (once). If this does not correct the problem, press Fn and F5 simultaneously again to return the display priority to its previous setting.



HINT: Holding the Fn key and pressing the F5 key several times will advance you through the display options.

If you are using an external monitor:

- ❖ Check that the monitor is turned on.
- ❖ Check that the monitor's power cord/cable is firmly plugged into a working power outlet.
- ❖ Check that the cable connecting the external monitor to the computer is firmly attached.
- ❖ Try adjusting the contrast and brightness controls on the external monitor.
- ❖ Press Fn and F5 simultaneously to make sure the display priority is not set for the built-in screen.

Small bright dots appear on your TFT display when you turn on your computer.

Small bright dots may appear on your screen display when you turn on your computer. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology. When the computer is operated on battery power, the screen will dim and you may not be able to increase the brightness of the screen while on battery power.

PC Card problems

PC Card checklist

(Available on certain models)

- ❖ Make sure the card is inserted properly into the slot.
See “Using PC Cards” in the electronic user’s guide for information about how to insert PC Cards.
- ❖ Make sure all cables are securely connected.
- ❖ Occasionally a defective PC Card slips through quality control. If another computer with a PC Card slot is available, try the card in that machine. If the card malfunctions again, it may be defective.

Resolving PC Card problems

Here are some common problems and their solutions:

The slot appears to be dead. PC Cards that used to work no longer work.

Check the PC Card status:

- 1 Click **Start, Control Panel, System and Maintenance**, and then **Device Manager**.
- 2 Double-click the appropriate PC Card, which will be listed under one of the categories shown, for example: Disk drives, Network adapters, Other, etc.

The operating system displays your PC Card’s Properties dialog box, which contains information about your PC Card configuration and status.

The computer stops working (hangs) when you insert a PC Card.

The problem may be caused by an I/O (input/output) conflict between the PCMCIA socket and another device in the system. Use Device Manager to make sure each device has its own I/O base address. See “Fixing a problem with device manager” in the electronic user’s guide for more information.

Since all PC Cards share the same socket, each card is not required to have its own address.

ExpressCard® problems

ExpressCard® checklist

(Available on certain models)

- ❖ Make sure the card is inserted properly into the slot.
See “Using an ExpressCard®” in the electronic user’s guide for information about how to insert ExpressCards.
- ❖ Make sure all cables are securely connected.
- ❖ Occasionally a defective ExpressCard slips through quality control. If another computer with an ExpressCard slot is available, try the card in that machine. If the card malfunctions again, it may be defective.

Resolving ExpressCard® problems

Here are some common problems and their solutions:

The slot appears to be dead. ExpressCards® that used to work no longer work.

Check the ExpressCard® status:

- 1 Click **Start, Control Panel, System and Maintenance**, and then **Device Manager**.
- 2 Double-click the appropriate ExpressCard, which will be listed under one of the categories shown, for example: Disk drives, Network adapters, Other, etc.

The operating system displays your ExpressCard’s Properties dialog box, which contains information about your ExpressCard configuration and status.

The computer stops working (hangs) when you insert an ExpressCard®.

The problem may be caused by an I/O (input/output) conflict between the socket and another device in the system. Use Device Manager to make sure each device has its own I/O base address. See “Fixing a problem with device manager” in the electronic user’s guide for more information.

Since all ExpressCards® share the same socket, each card is not required to have its own address.

If you need further assistance

If you have followed the recommendations in this section and are still having problems, you may need additional technical assistance. This section contains the steps to take to ask for help.

Before you contact Toshiba

Since some problems may be related to the operating system or the program you are using, it is important to investigate other sources of assistance first.

Try the following before you contact Toshiba:

- ❖ Review the troubleshooting information in your operating system documentation.
- ❖ If the problem occurs while you are running a program, consult the program's documentation for troubleshooting suggestions. Contact the software company's technical support group for their assistance.

For the number of a Toshiba dealer near you, see "Toshiba voice contact" in this section.

Contacting Toshiba

If you still need help and suspect that the problem is hardware-related, Toshiba offers a variety of resources to help you.

Toshiba's Technical Support Web site

For technical support, or to stay current on the most recent software and hardware options for your computer, and for other product information, be sure to regularly check the Toshiba Web site at pcsupport.toshiba.com.

Toshiba voice contact

Before calling Toshiba, make sure you have:

- ❖ Your computer's serial number
- ❖ The computer and any optional devices related to the problem
- ❖ Backup copies of your Windows® operating system and all other preloaded software on your choice of media
- ❖ Name and version of the program involved in the problem along with its installation media
- ❖ Information about what you were doing when the problem occurred
- ❖ Exact error messages and when they occurred

For technical support, call the Toshiba Customer Support Center:

Within the United States at (800) 457-7777

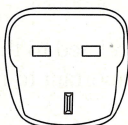
Outside the United States at (949) 859-4273

Power cord/cable connectors

Your computer ships with the correct power supply for the country of purchase. This section shows the shapes of the typical AC power cord/cable connectors for various parts of the world.



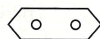
USA and Canada
(UL and CSA
approved)



United Kingdom
(BS approved)



Australia
(AS approved)



Europe
(VDA and
NEMKO approved)

Features and specifications

For the detailed specifications for your computer, visit pcsupport.toshiba.com. Go to the Tech Support Center, select your particular model from the list and go to the Detailed Specifications for that model.

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